## **ABSTRACT**

## TITLE:

Electronic control cell for an active matrix display organic electroluminescent diode and methods for the operation thereof and display

## APPLICANTS: CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE ECOLE POLYTECHNIQUE

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The invention relates to an electronic control cell for at least one organic light-emitting diode (OLED) of a pixel or segment of an active matrix display, the cell including at least one control circuit (6,61,62) with a control input and operating relative to a control signal arriving at a control line (5,5') and enabling to turn the OLED(s) on, one capacitive storage circuit of the control signal with a capacitor C connected to the control line, one selection circuit (4,41,42) operating relative to a selection signal  $V_{\text{sel}}$  on a selection line (3,3') and enabling electrical connection or insulation of the capacitive storage circuit with/from a control voltage  $V_{\text{com}}$  (2) relative to said selection signal. According to the invention, the storage is temporary by discharging the capacitor through a resistor Rf parallel to the capacitor. Operating methods and a display unit are also disclosed in the invention.

FIGURE 3